

Title (en)
ACOUSTIC TRANSDUCER

Title (de)
AKUSTISCHER WANDLER

Title (fr)
TRANSDUCTEUR ACOUSTIQUE

Publication
EP 2929700 A4 20160713 (EN)

Application
EP 13860884 A 20130207

Priority
• US 201261733018 P 20121204
• US 201361750470 P 20130109
• CA 2013000109 W 20130207

Abstract (en)
[origin: US2014153770A1] This invention relates to acoustic transducers with stationary and moving coils, and methods for operating the acoustic transducers. Time varying signals are applied to the moving and stationary coils to control the movement of a diaphragm, which produces sound. The time varying signal applied to the moving coil corresponds to at least a processed version of an input audio signal and is updated based on, at least, a version of the time varying signal applied to the stationary coil. Some embodiments include updating the processed version of the input audio signal in response to a magnetic flux value corresponding to the time-varying signal applied to the stationary coil. Some embodiments include updating the time-varying signal applied to the moving coil in response to a feedback signal.

IPC 8 full level
H04R 9/06 (2006.01); **H04R 3/00** (2006.01); **H04R 9/04** (2006.01)

CPC (source: EP US)
H04R 3/00 (2013.01 - EP US); **H04R 9/00** (2013.01 - US); **H04R 9/06** (2013.01 - EP US); **H04R 9/025** (2013.01 - US);
H04R 9/046 (2013.01 - EP US); **H04R 2209/021** (2013.01 - EP US); **H04R 2209/022** (2013.01 - EP US)

Citation (search report)
• [XI] WO 2009039648 A1 20090402 - AUDERA INTERNAT SALES INC [BB], et al
• [XI] US 5487114 A 19960123 - DINH KHANH [US]
• [I] GB 2010639 A 19790627 - MATSUSHITA ELECTRIC IND CO LTD
• See references of WO 2014085899A1

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)
US 2014153770 A1 20140605; CN 104838670 A 20150812; CN 104838670 B 20180330; EP 2929700 A1 20151014; EP 2929700 A4 20160713;
EP 2929700 B1 20191016; JP 2014110629 A 20140612; JP 6307216 B2 20180404; KR 102036172 B1 20191024; KR 20150092153 A 20150812;
US 2015010198 A1 20150108; US 9241213 B2 20160119; WO 2014085899 A1 20140612

DOCDB simple family (application)
US 201313760772 A 20130206; CA 2013000109 W 20130207; CN 201380063430 A 20130207; EP 13860884 A 20130207;
JP 2013018789 A 20130201; KR 20157014864 A 20130207; US 201414496769 A 20140925